MACET MYSTICA

MAULANA AZAD COLLEGE OF ENGINEERING & TECHNOLOGY

MONTHLY E-NEWSLETTER

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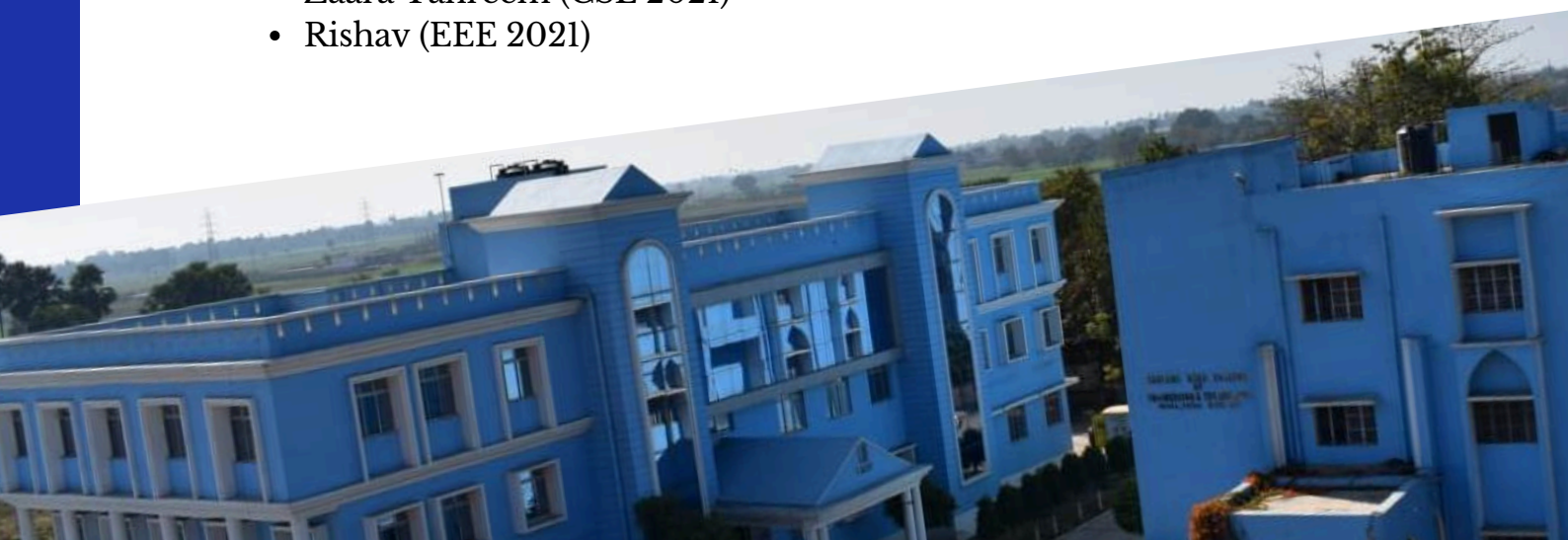
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EDITORIAL

College is often described as the best time of our lives—filled with new friendships, opportunities, and unforgettable moments. Yet, the reality is that it also comes with its own set of challenges. Each day, from balancing academics and personal growth to planning for the future, presents a new test. But within these challenges, one must truly learn about yourself and shape your future. It is a time for exploration, and it's perfectly normal to change your mind or switch paths. The key is to keep an open mind and embrace the journey, wherever it may lead. These years are a time of immense learning and self-discovery. It will be full of both triumphs and setbacks, but in every moment, there's an opportunity to grow. Embrace the uncertainty, the failures, and the moments of doubt, because they are shaping you into a stronger, wiser version of yourself.

The college experience is much more than just attending classes and passing exams. It's about discovering passions, learning life skills, and understanding yourself. One of the most important lessons you learn in college is that it's okay not to have all the answers right now.

This is a journey you'll only take once, and it will shape you for years to come. Try to make the most of it.

EDITOR
SAIMA FARZEEN
Assistant Professor
Mechanical Department

Contents

The Invisible Battle: Why Cybersecurity Matters Today

Zaffar Abbas (CSE, MACET)

Introduction to Cybersecurity:

Key In today's digital world, cybersecurity plays a crucial role in protecting sensitive information, systems, and networks from cyber threats. Cybersecurity encompasses various practices and technologies designed to prevent unauthorized access, attacks, damage, or data breaches.

Key Threats:

Cybersecurity faces a range of challenges due to constantly evolving threats. Some common cyber threats include:

- **Malware:** Malicious software such as viruses, worms, and ransomware that can disrupt or damage systems.
- **Phishing:** Fraudulent attempts to acquire sensitive data by disguising as trustworthy entities, often through email or fake websites.
- **Denial of Service (DoS) Attacks:** Overloading a network or system with traffic to disrupt its normal functioning.
- **Man-in-the-Middle (MitM) Attacks:** Intercepting and altering communication between two parties to steal or manipulate data.

Importance of Cybersecurity

As the world becomes increasingly connected through the internet and cloud services, cybersecurity has become essential for individuals, businesses, and governments alike. Financial institutions, healthcare organizations, and critical infrastructure sectors are particularly vulnerable to cyberattacks, which can result in data breaches, financial loss, and reputational damage. Effective cybersecurity measures help protect personal data, intellectual property, and business operations.

Best Practices:

To mitigate cyber risks, it's important to follow best practices such as:

- **Using Strong Passwords:** Implement complex passwords and change them regularly.
- **Multi-Factor Authentication (MFA):** Adding an extra layer of security beyond passwords.
- **Regular Software Updates:** Keeping software up-to-date to patch security vulnerabilities.
- **Employee Training:** Educating staff on recognizing and avoiding cyber threats.

Conclusion:

Cybersecurity is a critical aspect of modern digital life. By adopting robust security measures and staying aware of emerging threats, individuals and organizations can protect their data and systems from cyberattacks, ensuring a safer digital environment.

Exhibition Cricket Match

An exhibition match was played on 21st September 2024 in MACET Cricket ground between St. Columba's, Hazaribagh College Alumni and Maulana Azad colege of Engineering & Technology faculties.

St. Columbo's College team captain was Colonel Ishrat Nabi where as MACET team was played under the captaincy of Mr. Rakesh Ranjan (CSE, Branch), and Mr. Taqui Imam (CSE, Branch). The match was won by MACET.

The match was very interesting and both the teams played with full enthusiasm and showed true sportsmanship on the field.

Health Awareness Programme in Collaboration with Al-Khair Charitable
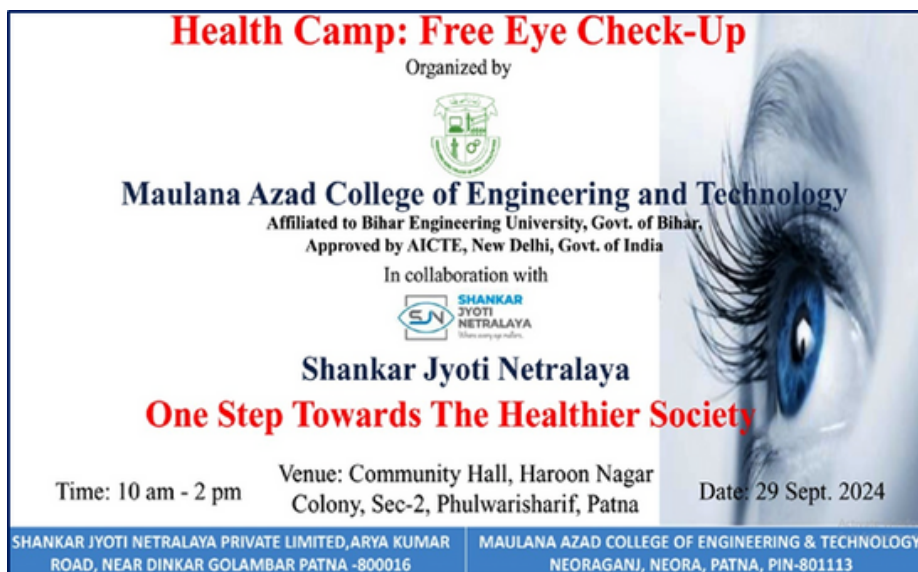
-Mrs. Mamta Kumari, Asst. Prof.(ME Deptt., MACET)

A free health awareness program for childrenwas organized by our institute Maulana Azad College of Engineering and Technology on 14th September 2024 in collaboration with Al-khair Charitable Trust at Raahnuma education centre, Haroon Nagar Sector-2, Phulwari-sharif, Patna from 10:00 AM to 12:00 Noon headed and guided by Mr. Kashif Faridi ,Mr. Firoz Alam from the department of M.E respectively, Dr. Arshad Mohammad from the department ofEEE and Mr. Faiz Ahmad from CSE department ,Members of Al-Khair Mr. Afroz Ahmad and Mr. Qumar Warsi ; Secretary & acting secretary respectively , Trustee Mr. Najeebul Haque in the presence of expert and qualified medical professionals Dr. Syed Hashmi and Dr. Abdulla Jawed including with technicians supervised the camp and offered valuable health advice to participants , teachers & faculty members of Raahnuma Education Centre.

Around 73 students were participated in this health awareness program where they get information about health & hygiene, personal care tips where they shared about their present environmental situation and how to deal and remain healthy in this era of junk food market. Lifestyle changes and adaptation of healthy eating and living habit can transform their bad health into good health, provided an opportunity for early recognition of disease and their precautions. Program ended up with the distribution of cakes and pens among the students.

In a nut shell program was a huge success and appreciated the initiation taken by the institute and will be continued in the near future for the welfare of the institute and the society.

Health Awareness Programme in Collaboration with Jyoti Netralaya

*-Mrs. Mamta Kumari, Asst. Prof. (ME Deptt., MACET)*

A free eye checkup camp was systematized and organized under a health checkup camp by our institute Maulana Azad College of Engineering and Technology on 29th September 2024 in collaboration with Shankar Jyoti Netralaya at Community Hall, Haroon Nagar Sector-2, Phulwari-sharif, Patna from 10:00 AM to 2:00 PM headed and guided by Mr. Kashif Faridi ,Mr. Qaiser Suhail from the department of M.E respectively, Dr. Arshad Mohammad from the department of EEEand Mr. Faiz Ahmad from CSE department in the presence of expert medical team of Shankar Jyoti Natralaya, Dr. Lalsa Goswami , Dr. Md. Toqeer Neyaz, Dr. Samar Alam (Ophthalmologist) and Mr. Qumar Alam a Marketing Officer.

The event eye witnessed active participation from students, teachers, and local community members. Around 150 people get benefitted via this free eye checkup camp.

It provided an opportunity for early detection of eye related issues like Cataract, Diabetic retinopathy, Retinal detachment, Refractive error, Floater, Amblyopia, Astigmatism and encouraged preventive healthcare practices. The camp received positive feedback from attendees, emphasizing the importance of regular eye checkups for overall well-being. The objective of this camp was to promote and to create eye health awareness and to provide basic medical assistance to students, staff, and local community members leading to an intervention to clear the backlog of avoidable blindness and to reach out to the people who are living in rural areas and to create awareness among the people followed by in-depth counseling at the campsite focuses; untreated poor people.

Overall, the health checkup camp was a successful initiative in promoting health awareness and ensuring the holistic well-being of our institute and our society.

Health Awareness Programme in Collaboration with Jyoti Netralaya

Health Awareness Programme in Collaboration with Jyoti Netralaya
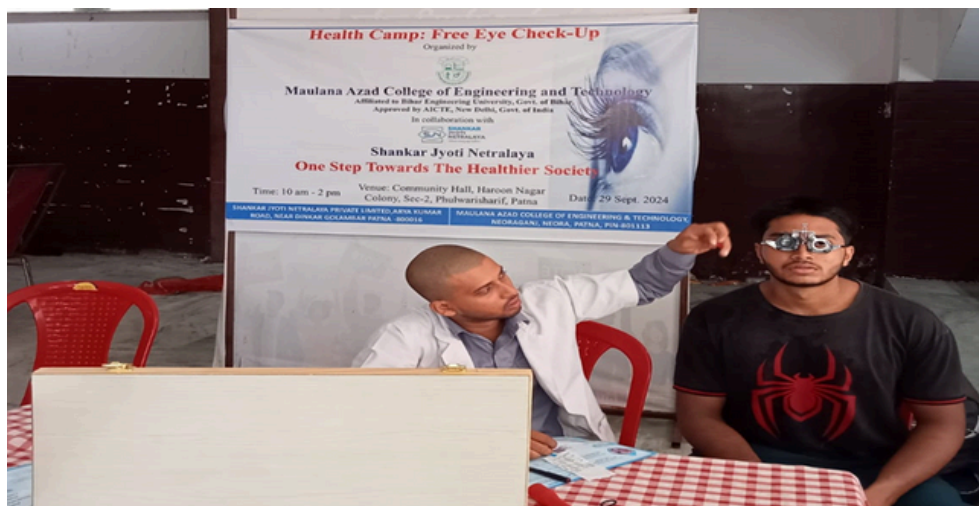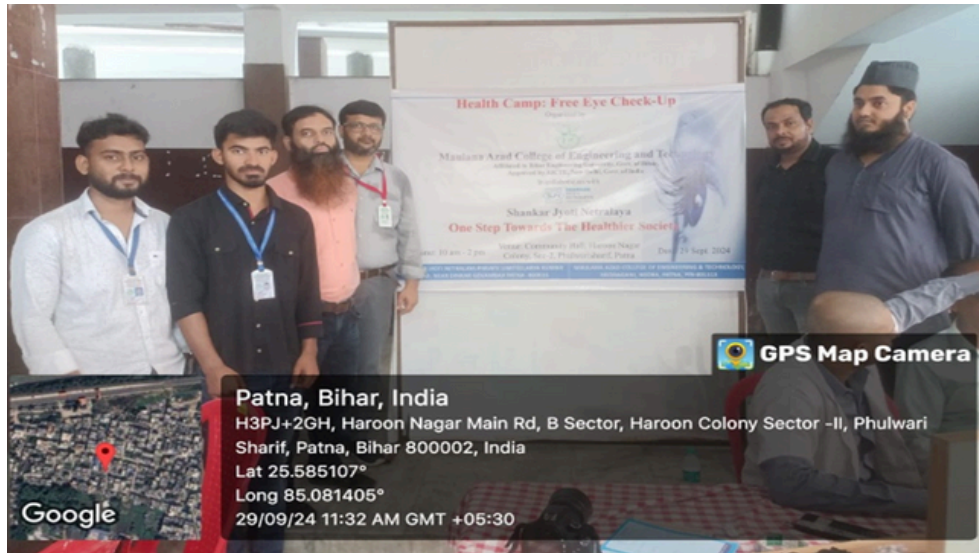
STUDENT INDUCTION PROGRAM (SIP), B.Tech 2024

-Dr. Sana Firdos Khan, Asst. Prof. (Sc.& Hum. Dept, MACET)

Day-1

Students Induction Program 2024 (SIP) of B. Tech students admitted in 2024 batch was held in the New Seminar Hall at MACET, Patna from 09.09.24 to 12.09.24.

The Students Induction Program (SIP) forms a mandatory part of AICTE which is conducted every year in the institution to mark the commencement of the new academic session. It's held with a purpose to help new students adjust and feel comfortable in the new academic environment, to inculcate in them the spirit, ethos and culture of the institution, to help them build bond with other students and faculty members and to expose them to a sense of larger purpose and self- exploration.

The four days inclusive program commenced on the 9th of September, 2024 with Tilawat-e-Quraan, the beautiful recitation of the verses from Quran and it's translation by students of B. Tech. Thereafter followed the formal welcome note addressed by Prof. (Dr.) Asim Kumar, Director of MACET. Introduction to the SIP was given by Dr. Sana Firdos Khan Assistant Professor, MACET who was the compere of the introduction session.

With the help of power point presentation a virtual tour of the college campus was presented that included the introduction to the college campus, various departments of the institution, their respective HoDs, faculty members and other important information related to the various infrastructure, laboratories, department library, extracurricular activities, training and placement cell, etc. were briefed to the students to encourage them to utilize for maximum optimization of their skills in college.

Day-1

After this virtual tour of college, the session proceeded further with Prof. (Dr.) Md. Masood Ahmad, the Dean Academic, MACET who delivered a motivational speech on the holistic development of technical education and its prospects and advancement in global sphere. It was a really enlightening speech by the Dean Academics.

The session was followed by Mr. Md. Raza, Assistant Professor, MACET, who addressed the students about the Importance of Induction Training Program and its relevance in today's world. This was a truly engaging session as students were informed about the significance and relevance of technical studies.

The session of Day 1 successful concluded with the Vote of Thanks delivered by Dr. Sana Firdos Khan, Assistant Professor, MACET. After vote of thanks, the audience were requested to stand for the National Anthem.

Post lunch session was followed by 2 events which included the Mentor- Mentee Interaction where briefing of roles and responsibilities were discussed by Mentors to their respective mentees which was followed by introduction of students and registration process and attendance by respective mentors of their branch. This session concluded successful as both the students and faculties (mentors and mentees) both had a fruitful, engaging and enlightening interaction.

Day-2

The Next day onwards the sessions were beautifully anchored by **Mr. Nadeem Enam TPO MACET.**

The Day Two of Students Induction Program was held on the 10th of September, 2024 at the Seminar Hall, MACET from 9:30 a.m. to 11:30 a.m. The highlights of this session were the introduction to BEU (Bihar Engineering University) in which the detailed curriculum and syllabus with regulations (credit system, CGPA, Exam, Practical, Term Work, Viva) for B. Tech Engineering Course as per the New syllabus and curriculum were discussed by Prof. (Dr.) Masood Ahmad, Dean Academics, MACET. The highlights of the session were the detailed information regarding the course, curriculum and syllabus of B. Tech Degree Course with the regulations of Credit System, CGPA, Exams, Practical and Viva Voce were discussed. The session was very informative and productive for the students and faculties alike who were gathered for the SIP. The freshers from B. Tech stream were highly enriched by this session as they were made familiar about the courses and curriculum of their respective branch of study. This session was followed by a short recess of 30 minutes from 11:30 a.m to 12 noon.

The post lunch sessions commenced from 12 noon and constituted interaction of HoDs from various departments with their respective department students. This session formally introduced the respective HoDs of various departments to their students which will facilitate them to get familiar with the functioning of their respective departments.

Day-2

The next session that followed was on getting familiar with NPTEL/SWAYAM/MOOC e-learning portals. This session was presented by **Mr. Rakesh Ranjan, SPOC, MACET.**

Through this wonderful presentation the students were made aware about the various e-learning schemes, organization and online sources of learning. The students were introduced to these schemes and e-learning sources which will be helpful to them to avail by getting registered to enhance their academic career and success. This session concluded with the attendance of students by respective mentors of their branches.

Day-2

Day-3

The Day Three of Students Induction Program was held on 11th of September, 2024 in the New Seminar Hall at MACET from 9:30 a.m. to 11:30 a.m. The sessions highlights comprised of the introduction of rules and regulations regarding maintaining the discipline inside the college premises by Mr. Aon Ahmad, Proctor, MACET. Through this session the students gained valuable insights regarding the mandatory protocols of discipline, rules and regulation to be maintained within the college campus. It was a thoroughly enriching session.

The next session followed was introduction to Examination department by Mr. Md. Riyaz, the Controller of Examination (COE, MACET). It was indeed a fruitful session as the students gained a lot of information regarding the university examination, semester mid-term examination and marks distribution etc.

The next session highlighted the different facilities cum rules and regulations of Central Library presented by Mrs. Danish Fatma, Head, Librarian, MACET. This was a thoroughly enriching presentation as students received knowledge and information regarding the rules, regulations and facilities available to them to avail e-books, book bank and online textbook resources, registration process of the Central Library.

The session was followed by discussion on familiarization with different scholarship schemes (AICTE, Govt. aided CSR, State/ Central Dept., NGOs/ Private sector) undertaken by Mr. Ozair Ahmad, INO, MACET. Through this session the students were highly enriched as they were introduced to the various scholarship programs and schemes available to the students aided by various private and government organizations. This was an enlightenment session as students were made aware about the financial assistance that they could avail themselves with to enabling them to embark on a smooth and successful future.

Day-3

The post lunch session from 12 noon to 1:45 pm comprised of a session on training and placement cell activities conducted by Mr. Md. Nadeem Enam (TPO, MACET). This session was followed by the yoga session by Mr. Rakesh Ranjan, Assistant Professor computer science department, MACET.

Day-4

The Day Four of the SIP commenced on the 12th of September, 2024 from 9:30 a. m to 12:00 noon. The highlights of the session was the screening of the science fiction 'Gravity (2013) directed by Alphonso Cuaron. There were also' motivational short clips that were displayed on the screen to help inspire and motivate the students through the struggle and suffering of the real life achievers. This session was truly inspiring and moral boosting to all. Then followed the recess of 30 minutes from 11:30 a.m. to 12 noon. Post lunch session which was from 12:00 noon to 1:45 pm was followed by various student centric activities like quiz and extempore. Through these student centric activities the students gained knowledge, confidence and insights about the quiz and extempore. The students as well as respective faculty members displayed exuberance, zeal and enthusiasm alike.

Finally the feedback session was taken of the students. It was observed that the students thoroughly enjoyed the SIP and participated in the various activities held in the sessions. Hence the session concluded with a positive note by where the students as well as the faculties of the institution had a learning insightful session.

The session concluded successfully with the group photo of the faculty with the students.

C S E   D E P A R T M E N T

FDP/RESEARCH PAPERS

Successfully completed 5 days National Level Online Teachers Training Program organized by Association of Muslim Professionals from 23 Sept. 2024 to 27 Sept. 2024

- Mr. Mazhar Eqbal
- Mr. Rakesh Ranjan

Successfully completed one week AICTE Recognised Faculty Development Program organized by NITTTR, Chandigarh from 16-09-2024 to 20-09- 2024

- Mr. Md. Farooq

Impact of Smartphones in Daily Life

Ghulam Husain Ansari, B.Tech (AI & ML), 2023 Batch

Smartphones have revolutionized the way we live, work, and interact with the world. It was initially used for communication, calculation, listening to music and ended up with doing almost everything whether entertainment, productivity, advertisement, shopping etc. It quickly became an important part of our lives.

With the ability to call, text, email, and connect via social media apps like WhatsApp, Instagram, Zoom, it is easier to stay in touch with our closed ones and others regardless of distance or time zones. The internet's vast knowledge is now available in the palm of our hand. This allows people to educate themselves and gain awareness of global issues anytime, anywhere in the world. Mobile access to emails, documents, and collaboration tools professionals to stay productive even when they are away from their desk. On the positive side, there are apps for managing fitness, diet, and even mental health. However, it also contributes to the problems such as short attention span, sleep disruption, digital addiction, loneliness, doomscrolling, and mental health concern due to overuse of social media. Instead of talking to friend or playing with friends in real life, people use social media to entertain themselves. Eventually, they are disconnecting with almost everyone around them in real life. So, too much social media can lead to loneliness despite being more "connected" than ever. The pressure to present idealized versions of life online can contribute to anxiety, depression, and a sense of inadequacy particularly among young generations.

CONCLUSION: - Smartphones have become indispensable in modern life, influencing communication, productivity, health, and entertainment. They enable global connectivity and provide access to vast knowledge of internet. However, their overuse also poses challenges, including sleep disruption, social isolation, and mental health issues. So, it is important to be aware of the potential drawbacks of smartphones so that it helps us to establish a balance between benefits and potential drawbacks of smartphones for the well-beings of our physical and mental health. Ultimately, smartphones are powerful tools that have reshaped daily life in countless ways.

Poetry

*Purushottam Kumar Gupta,
Data SCience CSE, 2023 Batch*

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PURUSHO SE HOKAR BHI ,

KOI PURUSHOTTAM KO NA BHULEGA ;

JANA JISNE PURUSHARTH MERA ,

WO PURUSHOTTAM – PURUSHOTTAM BOLEGA

ETIHAS YE GAWAH HAI KI VIDYARTHI MAI NIPUN THA

BAS EK HI KAMI THI KI MAI PRAYATANO KA SHAUKHIN THA

JO NA KIYA HOTA PRAYATAN MAINE IIT JAANE KO

TO UPSC KE PRASHNO SE RANGTA APNE HAATHO KO

MATHEMATICS SE BHAG JAANA AASAN HOTA HAI,

MATHEMATICS KA HAR EK QUESTION APNE AAP ME EK IMTEHAN HOTA HAI;

CHHOR KAR BHAGNE WALO KO MILTA KUCH NAHI ,

AUR PADHNE WALO KE QADMO ME JEE ADVANCE HOTA HAI.

SUCCESS KE RATH ME , EXAM BAHUT HAI

STUDENTS KE EXAMON PAR ELZAM BAHUT HAI

YE SHIKAYATON KA DAUR DEKHAR THAM JAATA HUN

LAGTA HAI UMAR KAM AUR EMTEHAN BAHUT HAI.

IIT KE PRASHN SE HATASH NAHI HOTE

JEE ADVANCE KE EXAM ME NIRASH NAHI HOTE

JEE KI RESULT PE KYU BHAROSA KARTE HO

RESULT TO UNKE BHI HOTE HAI JO JEE PASS NAHI HOTE

Creativity

Faraz Rahman, B.Tech CSE, 2024 Batch
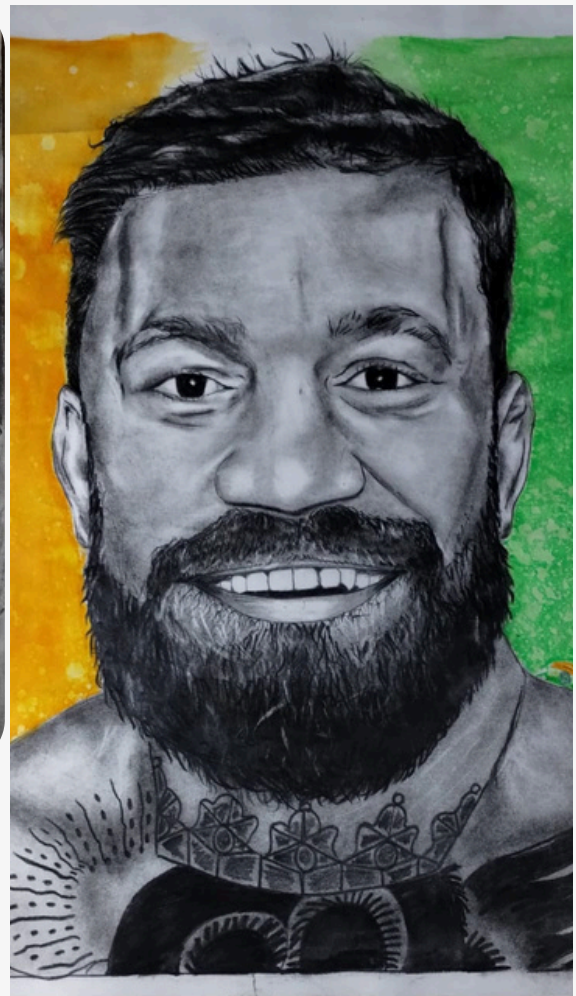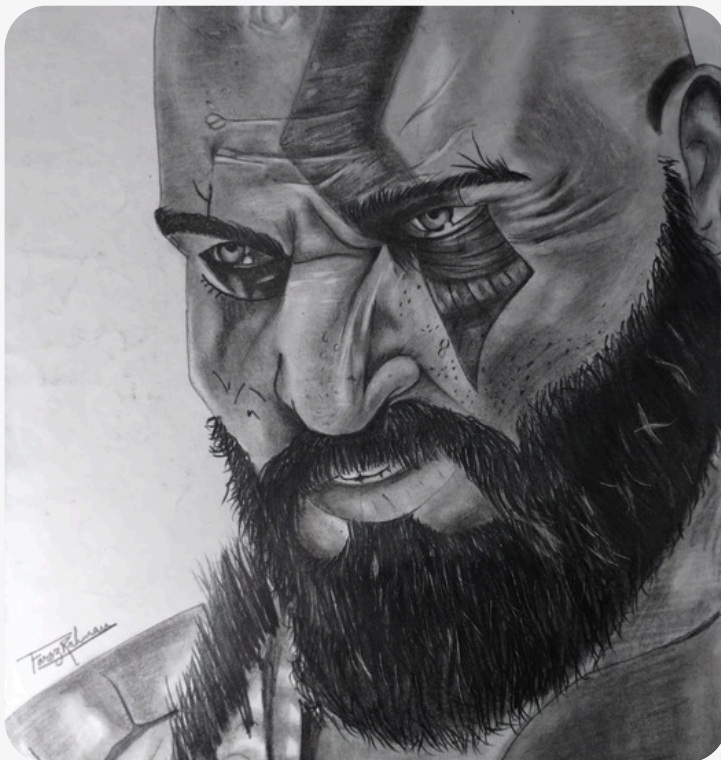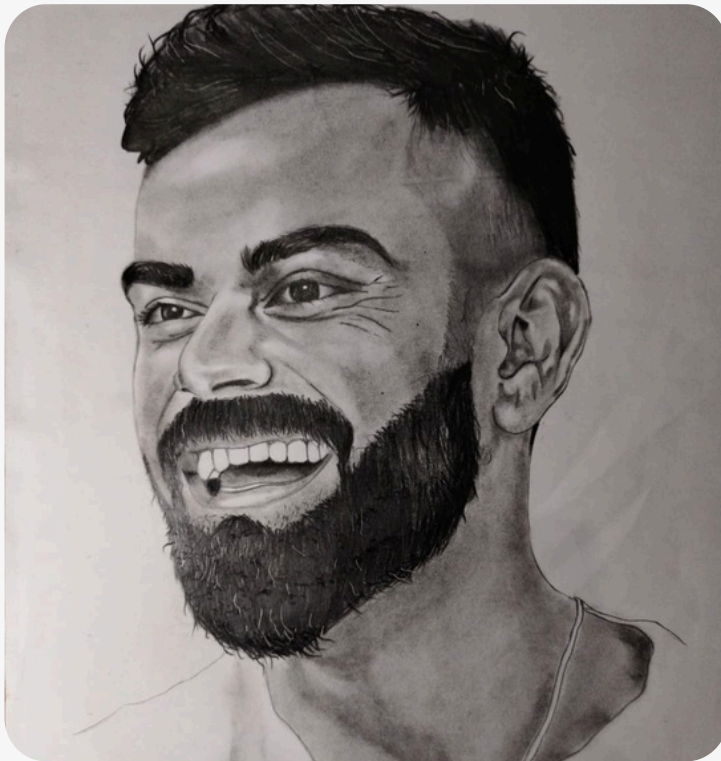
Critical Thinking: A Different View to the World

Omaima Jamil, B.Tech CSE, 2023 Batch

Critical thinking is a cognitive skill that allows individuals to analyze, evaluate an interpret information objectively and rationally. It has the power to unlock full potential of our minds. It goes beyond accepting information at face value; instead, critical thinkers delve deeper, question assumptions, and explore various perspectives before drawing conclusions.

At MACET, we believe that cultivating strong personalities is not just a pursuit for academically inclination, but a fundamental necessity for individuals across various domains; including education, businesses and everyday life.

The ability to think critically calls for a higher order thinking than simply recalling the information. It is generated by observation, experience, reflection, reasoning and communication. Observation leads to thinking; wherever in today's society, we prefer being a spectator than an analyser.

According to Paul-Elder framework, critical thinking is the:
- Analysis : Focusing on parts / structures of thinking.
- Evaluation : Focusing on quality of thinking.
- Improvement : Focusing on how to get better at it.

Benefits of being a critical thinker :

The advantages of critical thinking do not merely extend to academics. It fosters decision making by weighing options (pros and cons), accessing consequences, and conclude at better choices. Critical thinkers also benefit from heightened self-reflection and understanding our own areas of improvement. Critical thinkers navigate the sea of information with discernment, identify misinformation and unreliable sources. Furthermore, this invaluable skill enables creative problem solving, allowing thinkers to craft innovative solutions to intricate challenges.

Skills to be developed to be a critical thinker :
- Curiosity : Thr thirst for knowledge drives a person to seek answers and expand the understanding.
- Research : Gather information from reliable sources and distinguish credible data from biased claims.
- Pattern recognition : Recognize recurring patters bwtween seemingly unrelated pieces and draw meaningful insights and well-found predictions.

In conclusion, critical thinking is a vital skill that enables individual to navigate the complexities of the modern world effectively. We can become more discerning, analytical and innovative, leading to greater success and fulfilment in some aspects of life.
Someone quoted best : "The art of critical thinking is the thinking about your thinking, while you're thinking."

Maulana Azad College of Engineering & Technology
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